Table 1C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Demographic Indicators (2)

Total Records	Number	%
Complete Records	36,275	67.0
Prenatal Records	3,749	6.9
Postpartum Records	14,078	26.0
Total	54,102	

Source of Data			Number	%
WIC			54,102	100.0
Maternal Health			0	0.0
Other			0	0.0
Total			54,102	100.0
Excluded Unknown	0	0.0 %		

Race/Ethnic Distribu	Number	%	
White, Not Hispanic		27,657	51.3
Black, Not Hispanic	16,571	30.7	
Hispanic	5,749	10.7	
American Indian/Alaska Nat	195	0.4	
Asian/Pacific Islander	Asian/Pacific Islander		
Multiple Races		2,570	4.8
All Other		0	0.0
Total		53,890	100.0
Excluded Unknown 209	0.4 %		

Age Distribution	Number	%
< 15 Years	50	0.1
15 - 17 Years	1,282	2.4
18 - 19 Years	3,998	7.4
20 - 29 Years	33,442	61.9
30 - 39 Years	14,141	26.2
>= 40 Years	1,102	2.0
Total	54,015	100.0
Excluded Unknown: 87 0.2 %		

Education Distribution			Number	%
< High School			11,839	22.2
High School			24,859	46.7
> High School			16,524	31.0
Total			53,222	100.0
Excluded Unknown	880	1.6 %		

% of Povert	Number	%		
0 - 50			15,097	37.8
51 - 100			10,059	25.2
101 - 130			4,817	12.1
131 - 150			2,489	6.2
151 - 185			3,389	8.5
186 - 200			1,014	2.5
> 200			2,878	7.2
Adjunctive Eligibility			181	0.5
Total			39,924	100.0
Excluded Unknown	100	0.2 %		

Program Participation (3)	Number	%
WIC	40,024	100.0
SNAP	39,981	42.9
Medicaid	39,972	90.6
Tanf	39,997	4.6
Excluded Unknown:		
WIC:	0	0.0
SNAP:	43	0.1
Medicaid:	52	0.1
Tanf:	27	0.0

Migrant S	Number	%		
Yes			637	1.2
No			53,465	98.8
Total			54,102	100.0
Excluded Unknown	0	0.0 %		

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data or errors.

⁽³⁾ Prenatal program participation

Run Date: 6/26/2020

Page: 2

2019 Pregnancy Nutrition Surveillance (1) Michigan Summary of Health Indicators

Summary of Health Indicators (2)							
		Michigan Prevalence		onal (7) alence r Year)			
	Number	%	Number	%			
Prepregnancy BMI (3)							
Underweight	43,733	4.2	159,852	4.1			
Normal Weight	43,733	35.2	159,852	35.6			
Overweight	43,733	25.1	159,852	25.0			
Obese	43,733	35.5	159,852	35.2			
Maternal Weight Gain (4)							
Less Than Ideal	27,372	19.1	114,229	22.5			
Ideal	27,372	29.4	114,229	29.2			
Greater Than Ideal	27,372	51.5	114,229	48.3			
Anemia (Low Hb/Hct) (5)							
1st Trimester	15,080	12.7	35,729	5.7			
2nd Trimester	14,863	18.3	35,449	7.0			
3rd Trimester	9,098	45.0	44,569	18.2			
Postpartum	12,203	30.7	57,476	18.5			
Parity (6)							
0	53,608	35.3	135,082	31.3			
1	53,608	28.2	135,082	32.2			
2	53,608	18.7	135,082	21.4			
>= 3	53,608	17.9	135,082	15.1			
Interpregnancy Interval							
<= 6 Months	33,814	12.8	80,427	13.1			
6 - <18 Months	33,814	26.7	80,427	23.4			
>= 18 Months	33,814	60.5	80,427	63.5			
Gestational Diabetes	49,829	7.3	100,642	10.0			
Hypertension During Pregnancy	49,855	11.9	99,796	9.4			

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

⁽³⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9). overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

⁽⁴⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

⁽⁵⁾ Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

⁽⁶⁾ Number of times a woman has given birth to an infant 20 or more weeks gestation

⁽⁷⁾ National includes previous year's data for all participating States and ITOs.

^{*} Percentages are not calculated if <100 records are avilable for analysis after exclusions

Table 2C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Health Indicators

Summary of Health Indicators (2)							
		Michigan Prevalence		onal (7) alence r Year)			
	Number	%	Number	%			
Medical Care							
1st Trimester	49,415	84.9	125,577	72.2			
No Care	49,415	6.6	125,577	5.9			
WIC Enrollment							
1st Trimester	53,324	28.5	159,369	19.0			
2nd Trimester	53,324	28.6	159,369	18.6			
3rd Trimester	53,324	17.6	159,369	35.5			
Postpartum (3)	53,324	25.3	159,369	26.9			
Prepregnancy Multivitamin Consumption (4)	42,172	19.1	98,317	21.7			
Multivitamin Consumption During Pregnancy (5)	39,761	87.7	96,069	88.0			
Smoking							
3 Months Prior to Pregnancy	47,367	24.7	155,621	27.7			
During Pregnancy	39,779	14.6	143,812	19.5			
Last 3 Months of Pregnancy	49,881	13.5	167,457	14.5			
Postpartum	49,892	14.4	167,715	15.0			
Smoking Changes (6)							
Quit Smoking by First Prenatal Visit	10,342	44.4	33,463	37.9			
Quit Smoking by First Prenatal Visit and Stayed Off Cigarettes	9,363	38.4	26,902	35.4			
Smoking in Household							
During Pregnancy	39,647	10.1	120,434	11.5			
Postpartum	49,826	2.9	146,763	7.1			
Drinking							
3 Months Prior to Pregnancy	47,224	17.6	157,857	13.0			
Last 3 Months of Pregnancy	49,900	0.6	147,740	0.5			

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

⁽³⁾ Women who initially enrolled in WIC during the postpartum period.

⁽⁴⁾ Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy, proxy for folic acid consumption.

⁽⁵⁾ Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

⁽⁶⁾ Among women who smoked 3 months prior to pregnancy.

⁽⁷⁾ National includes previous year's data for all participating States and ITOs.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 2C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Health Indicators

Summary of Health Indicators (2) National (6) Michigan Prevalence Prevalence (Prior Year) % % Number Number Birthweight (3) 47,135 Very Low 1.5 121,176 1.2 47,135 8.9 121,176 8.1 Low 47,135 Normal 83.2 121,176 84.1 47,135 6.4 121,176 6.7 High 48,449 12.5 121,542 Preterm (4) 11.8 Full term Low Birth Weight (5) 40,866 4.5 103,169 3.9 Multiple Births 49,644 1.8 151,681 1.5 Breastfeeding **Ever Breastfed** 47,531 67.8 119,843 73.4

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

⁽³⁾ Very low birth weight (<1500 g), low birth weight (1500 - <2500 g), normal birth weight (2500 - <4000 g), high birth weight (>4000 g).

^{(4) &}lt;37 weeks gestation.

^{(5) 37} or more weeks gestation <2500 g.

⁽⁶⁾ National includes previous year's data for all participating States and ITOs.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 3C

2019 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Racial and Ethnic Distribution by Contributor to National (3)

Comparison of Racial and Ethnic Distribution (2)									
Contributor	Number Included in	White, Not Hispanic	Black, Not Hispanic	Hispanic	American Indian/Alaska Native	Asian/Pacific Islander	Multiple Races	All Other/Unknown	
	Analysis	%	%	%	%	%	%	%	
Michigan	54,099	51.1	30.6	10.6	0.4	2.1	4.8	0.4	
National (Prior Year)	181,949	53.8	23.0	14.9	1.5	2.8	3.7	0.4	

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31(2) Excludes data with errors

⁽³⁾ National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 4C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Comparison of Age Distribution by Contributor to National (3)

Comparison of Age Distribution (2)									
Contributor	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %	
Michigan	54,102	0.1	2.4	7.4	61.8	26.1	2.0	0.2	
National (Prior Year)	181,959	0.1	2.9	8.6	61.8	24.6	1.8	0.1	

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31(2) Excludes data with errors

⁽³⁾ National includes previous year's data for all participating States and ITOs.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 5C

2019 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Maternal Health Indicators by Contributor to National (6)

	Comparison of Maternal Health Indicators (2)													
Contributor	Prepregnancy BMI (3)			V	Veight Gai	n		(Low F	emia Hb/Hct)		Gestat Diabe Duri	etes ing	Hyperte Duri Pregn	ng
		Under- weight	Over- weight		< Ideal	> Ideal	3rd Trir		Postpa	artum	- Pregn	Pregnancy		
	Number	%	%	Number	%	%	Number	%	Number	%	Number	%	Number	%
Michigan	43,733	4.2	60.6	27,372	19.1	51.5	9,098	45.0	12,203	30.7	49,829	7.3	49,855	11.9
National (Prior Year)	159,852	4.1	60.3	114,229	22.5	48.3	44,569	18.2	57,476	18.5	100,642	10.0	99,796	9.4

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

⁽³⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9). overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

⁽⁴⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

⁽⁵⁾ Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

⁽⁶⁾ National includes previous year's data for all participating States and ITOs.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 6C

2019 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Maternal Behavioral Indicators by Contributor to National (5)

Comparison of Maternal Behavioral Indicators (2)											
Contributor		Medical Car	е	WIC Er	rollment		Multivitamin	Consumption	1		
	1st Trimester		No Care	1st Trimester		Prepregnancy (3)		During Pregnancy (4)			
	Number	%	%	Number	%	Number	%	Number	%		
Michigan	49,415	84.9	6.6	53,324	28.5	42,172	19.1	39,761	87.7		
National (Prior Year)	125,577	72.2	5.9	159,369	19.0	98,317	21.7	96,069	88.0		

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31.

⁽²⁾ Excludes records with unknown data or errors.

⁽³⁾ Woman who reported taking a multivitamin four times a weeks or more in the month before pregnancy: proxy for folic acid consumption.

⁽⁴⁾ Pregnant women who reported tkaing a multivitamin in the past month; proxy for prenatal iron consumption.

 ⁽⁵⁾ National includes previous year's data for all participating States and ITOs.
 * Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 7C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Comparison of Smoking Indicators by Contributor to National (4)

Comparison of Smoking Indicators (2) Contributor **Quit Smoking** By First Prenatal **Smoking** Smoking in Household Visit and Stayed Off Cigarettes (3) 3 Months Last 3 Months Prenatal Postpartum Prior to Pregnancy of Pregnancy % % % Number % Number Number % Number Number Michigan 47,367 49,881 9,363 39,647 49,826 24.7 13.5 38.4 10.1 2.9 **National (Prior Year)** 155,621 27.7 167,457 14.5 26,902 120,434 11.5 146,763 7.1 35.4

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31.

⁽²⁾ Excludes records with unknown data or errors.

⁽³⁾ Among women who smoked 3 months prior to pregnancy.

⁽⁴⁾ National includes previous year's data for all participating States and ITOs.

Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 8C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Comparison of Infant Health Indicators by Contributor to National (7)

Comparison of Infant Health Indicators (2)											
Contributor	Birthweight			Preterm		Full Term LBW		Ever B	reastfed		
		Low (3)	High (4)	(5)		(6)					
	Number	%	%	Number	%	Number	%	Number	%		
Michigan	47,135	10.4	6.4	48,449	12.5	40,866	4.5	47,531	67.8		
National (Prior Year)	121,176	9.3	6.7	121,542	11.8	103,169	3.9	119,843	56.8		

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31(2) Excludes records with unkown data errors.(3) <2500 g.

^{(4) &}gt;4000 g. (5) <37 weeks gestation.

^{(6) 37} or more weeks gestation and <2500 g.

⁽⁷⁾ National includes previous year's data for all participating States and ITOs.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 9C

2019 Pregnancy Nutrition Surveillance (Michigan

Maternal Health Indicators by Race/Ethnicity, Age, or Education

Maternal Health Indicators by Race/Ethnicity, Age, or Education (2) Hypertension Weight Gain Gestational Prepregnancy BMI Anemia (Low Hb/Hct) During (4) Diabetes (3) (5)Pregnancy Under-Over-< Ideal >Ideal 3rd Trimester Postpartum Weight Weight % Number % Number % % Number Number % Number % Number % Race/Ethnicity White, Not Hispanic 22.546 4.6 58.7 14.128 17.5 52.7 4,351 35.0 6.717 23.2 25.488 7.8 25.501 11.7 Black, Not Hispanic 13,399 3.7 63.1 8,438 19.9 52.9 3,126 60.9 3,274 45.9 15,477 5.6 15,484 14.0 Hispanic 4,605 2.6 67.1 2,862 22.8 45.5 981 38.2 1,282 30.9 5,287 9.1 5,292 9.0 American Indian/Alaska Native 160 6.9 89 24 43 171 8.8 171 14.6 61.9 Asian/Pacific Islander 881 7.4 39.4 568 26.6 29.6 170 38.2 287 28.9 1,073 16.1 1,076 5.5 Multiple Races 2,136 4.4 60.9 1,284 18.8 52.9 446 48.4 598 31.6 2,328 6.1 2,326 9.9 All Other/Unknown 3 0 4.2 49,829 Total 43,733 60.6 27,372 19.1 51.5 9.098 45.0 12,203 30.7 7.3 49,855 11.9 Age * * * < 15 Years 37 * 24 15 5 46 46 1,069 227 240 1,168 15 - 17 Years 8.2 39.5 637 22.6 45.4 34.2 1,169 11.0 51.8 1.8 774 18 - 19 Years 3,372 8.2 46.3 2,042 19.0 51.6 731 46.9 38.5 3,656 2.5 3,657 11.3 20 - 29 Years 27.186 4.4 51.9 5.890 7.508 30.827 5.7 30.843 59.3 17.151 18.8 45.4 31.2 10.8 30 - 39 Years 11,168 2.2 69.1 6,999 19.1 51.2 2,079 43.0 3,388 27.8 13,081 12.1 13.089 14.3 273 973 >= 40 Years 841 1.0 75.5 483 22.2 44.5 146 47.3 28.6 973 21.2 19.9 Unknown 60 36 10 15 78 78 Total 43,733 4.2 60.6 27,372 19.1 51.5 9.098 45.0 12,203 30.7 49,829 49,855 11.9 7.3 Education 2,361 < High School 9,208 5.8 5,549 22.5 48.0 1,963 47.5 10,932 10,936 10.3 57.0 34.3 6.5 High School 20.238 4.3 12.747 18.8 52.1 4,348 46.1 5,355 23,060 23.075 12.0 60.4 32.1 6.8 > High School 13.819 3.0 8.780 17.1 2.700 41.3 4,329 15,239 8.7 15.246 13.0 63.5 53.0 27.2 87 158 598 598 **Excluded Unknown** 468 3.6 56.6 296 22.3 51.4 25.3 7.4 13.4 Total 43,733 4.2 60.6 27,372 19.1 51.5 9,098 45.0 12,203 30.7 49,829 7.3 49,855 11.9

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

⁽³⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

⁽⁴⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

⁽⁵⁾ Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 10C

2019 Pregnancy Nutrition Surveillance (

Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education

Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education **Medical Care WIC Enrollment** Multivitamin Consumption **During Pregnancy** Prepregnancy 1st Trimester No Care 1st Trimester % % % Number % Number Number Number Race/Ethnicity 27,266 20,624 White, Not Hispanic 25,289 86.5 7.7 31.7 22,677 21.6 89.4 Black, Not Hispanic 15,338 82.8 4.2 16,325 21.3 11,774 13.4 11,560 85.7 5,240 83.3 8.1 5,672 32.9 4,560 20.8 4,571 85.9 Hispanic 170 85.3 8.2 189 162 148 89.9 American Indian/Alaska Native 34.4 25.3 923 Asian/Pacific Islander 1.064 91.0 5.4 1.136 32.0 23.3 853 87.0 2,533 2,309 2,070 2,001 Multiple Races 83.3 6.6 31.3 17.8 86.8 All Other/Unknown 200 3 2 1.0 Total 49,415 84.9 6.6 53.324 28.5 42.172 19.1 39.761 87.7 Age 48 < 15 Years 50 43 42 1,151 1,269 1,084 1,075 15 - 17 Years 68.6 10.9 34.5 7.7 84.9 18 - 19 Years 3.608 80.8 7.5 3,958 30.8 3.363 11.1 3,255 86.7 20 - 29 Years 30,600 85.8 6.1 32,977 27.0 25,805 17.7 24,389 87.7 30 - 39 Years 12,962 85.8 7.0 13,905 30.2 10,936 25.6 10,144 88.5 >= 40 Years 971 83.3 7.4 1.080 35.8 869 27.3 799 0.88 75 85 57 Unknown 72 Total 49,415 84.9 6.6 53,324 28.5 42,172 19.1 39,761 87.7 Education < High School 10.802 79.4 8.2 11.658 30.8 8.731 14.4 8.956 83.0 High School 22,866 84.9 6.5 24,526 28.5 19,401 16.9 18,609 87.6 > High School 15,164 89.1 5.4 16,278 27.4 13,477 25.3 11,764 91.7 862 432 **Excluded Unknown** 583 82.3 8.4 17.9 563 20.1 85.2 49,415 84.9 6.6 53,324 28.5 42,172 19.1 39,761 87.7 Total

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31.

⁽²⁾ Excludes records with unknown data for behavioral indicators, and data with errors for behavioral and demographic indicators.

⁽³⁾ Woman who reported taking a multivitamin four a weeks or more in the month before pregnancy. proxy for folic acid consumption.

⁽⁴⁾ Pregnant women who reported tkaing a multivitamin in the past month; proxy for prenatal iron consumption.

Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 11C

2019 Pregnancy Nutrition Surveillance Michigan

Smoking Indicators by Race/Ethnicity, Age, or Education

Smoking Indicators by Race/Ethnicity, Age, or Education (2) Quit Smoking By First Prenatal **Smoking** Smoking in Household Visit and Stayed Off Cigarettes (3) 3 Months Last 3 Months Prenatal Postpartum Prior to Pregnancy of Pregnancy Number Number Number % Number % Number % Race/Ethnicity White. Not Hispanic 24.850 31.9 25.511 19.2 6.274 32.6 20.589 10.5 25.500 2.8 Black, Not Hispanic 13,854 16.4 15.488 6.7 1,892 54.2 11,523 15,469 3.4 11.7 Hispanic 5,158 13.0 5,299 5.6 553 52.4 4,540 4.7 5,278 1.6 American Indian/Alaska Native 174 62 148 44.8 170 30.0 10.8 171 6.4 Asian/Pacific Islander 1,058 3.2 1.077 1.1 18 851 3.1 1,076 2.3 2,266 2,331 562 1,992 2,327 Multiple Races 30.7 17.6 35.2 12.9 3.6 All Other/Unknown 4 2 0 2 2 Total 47,367 24.7 49.881 13.5 9,363 38.4 39.647 10.1 49.826 2.9 Age 47 2 < 15 Years 50 41 46 1.245 176 1.072 15 - 17 Years 16.9 1.170 7.0 51.7 23.4 1.168 7.2 18 - 19 Years 3,808 24.2 3,663 10.5 773 48.6 3,245 17.2 3,652 5.1 20 - 29 Years 5,884 24,332 30,832 2.7 28,942 25.1 30,861 13.2 40.1 9.8 30 - 39 Years 10.102 12.259 25.1 13.084 2.390 30.4 7.4 13.072 2.4 15.6 >= 40 Years 982 20.6 978 12.2 133 25.6 798 6.8 979 1.8 Unknown 81 78 57 77 47.367 Total 24.7 49.881 13.5 9.363 38.4 39.647 10.1 49.826 2.9 Education < High School 10,020 33.0 10,945 20.6 2,703 8,923 4.0 31.6 13.7 10,927 High School 21,785 26.2 23,082 13.8 4,641 39.8 18,573 10.4 23,063 3.0 > High School 14.937 17.0 15.254 7.9 1.950 44.4 11.720 7.0 15.237 1.9 **Excluded Unknown** 625 19.5 600 69 431 10.4 599 2.0 10.3 39,647 Total 47,367 24.7 49,881 13.5 9,363 38.4 10.1 49,826 2.9

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31.

⁽²⁾ Excludes records with unknown data for smoking indicators, and data with errors for smoking and demographic indicators.

⁽³⁾ Among women who smoked 3 months prior to pregnancy.

Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 12C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Infant Health Indicators by Race/Ethnicity, Age, or Education

Infant Health Indicators by Race/Ethnicity, Age, or Education (2)												
		Birthweight	:	Prete	erm	Full Terr	n LBW	Ever Bre	eastfed			
		Low (3)	High	(5))	(6))					
	Number	%	%	Number	%	Number	%	Number	%			
Race/Ethnicity												
White, Not Hispanic	24,085	8.4	8.1	24,733	11.0	21,257	3.4	24,266	72.3			
Black, Not Hispanic	14,676	14.6	3.4	15,109	15.5	12,281	6.6	14,849	58.1			
Hispanic	5,004	7.7	7.2	5,117	11.6	4,380	3.2	5,029	71.2			
American Indian/Alaska Native	157	7.6	14.0	162	13.6	131	3.8	158	69.6			
Asian/Pacific Islander	1,017	10.7	4.2	1,051	10.9	899	6.0	1,022	79.4			
Multiple Races	2,193	10.6	6.1	2,272	12.1	1,916	5.1	2,202	70.0			
All Other/Unknown	0	*	*	2	*	0	*	2	*			
Total	47,135	10.4	6.4	48,449	12.5	40,866	4.5	47,531	67.8			
Age												
< 15 Years	41	*	*	45	*	30	*	41	*			
15 - 17 Years	1,116	8.8	4.6	1,155	10.9	986	5.9	1,125	66.1			
18 - 19 Years	3,504	9.2	4.7	3,596	11.2	3,093	5.2	3,519	65.5			
20 - 29 Years	29,294	8.2	6.2	30,096	11.4	25,718	4.2	29,535	68.1			
30 - 39 Years	12,256	10.2	7.5	12,597	15.2	10,290	4.6	12,372	67.8			
>= 40 Years	856	12.6	6.3	888	18.2	695	6.2	870	66.1			
Unknown	68	*	*	72	*	54	*	69	*			
Total	47,135	10.4	6.4	48,449	12.5	40,866	4.5	47,531	67.8			
Education												
< High School	10,174	9.7	5.3	10,586	13.1	8,742	5.4	10,282	57.0			
High School	21,855	8.9	6.3	22,444	12.0	19,055	4.5	22,029	65.7			
> High School	14,548	8.6	7.4	14,837	12.8	12,588	3.9	14,650	78.1			
Excluded Unknown	558	7.5	5.0	582	13.6	481	2.7	570	76.0			
Total	47,135	10.4	6.4	48,449	12.5	40,866	4.5	47,531	67.8			

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

^{(3) &}lt;2500 g.

^{(4) &}gt;4000 g. (5) <37 weeks gestation.

^{(6) 37} or more weeks gestation and <2500 g.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 13C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Maternal Weight Gain and Birth Outcomes by Select Health Indicators

Maternal Weight Gain and Birth Outcomes by Select Health Indicators (2) Weight Gain (3) Birthweight Preterm Full Term LBW High Low < Ideal > Ideal (6) (7) (4) (5) % % % % % % Number Number Number Number Prepregnancy BMI Underweight 1,184 1,336 30.2 29.2 1,596 16.9 1.9 1,649 15.1 8.2 Normal Weight 9,896 23.2 42.8 13,573 11.2 4.3 13,934 12.2 11,811 5.2 Overweight 6,882 11.2 9,770 9.3 7.2 9,983 11.4 8,560 3.9 61.6 Obese 9,410 13,766 9.7 14,095 3.7 19.0 56.2 8.1 12.9 11,895 Weight Gain < Ideal 4,933 15.6 3.4 5,052 16.3 4,093 6.7 Ideal 7,922 6,765 7,757 10.9 4.3 12.1 4.8 > Ideal 13,678 7.7 8.5 13,898 10.6 12,094 3.1 **Smoking During Pregnancy Smokers** 2,706 20.1 51.6 4,809 12.8 3.9 5,036 13.9 4,132 6.7 Non-Smokers 15,538 30,097 25,876 18.5 51.9 29,220 8.6 7.0 11.4 3.8

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

⁽³⁾ Based on 2009 IOM report "Weight Gain Druing Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

^{(4) &}lt;2500 g.

^{(5) &}gt; 4000 g.

^{(6) &}lt;37 weeks gestation.

^{(7) 37} or more weeks gestation and <2500 g.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 14C

2019 Pregnancy Nutrition Surveillance (1) Michigan Summary of Trends in Racial and Ethnic Distribution

Page : 16

Run Date: 6/26/2020

	Summary of Trends in Racial and Ethnic Distribution (2)											
Year	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races	All Other/Unknown %				
2019	54,099	51.1	30.6	10.6	0.4	2.1	4.8	0.4				
2018	55,407	51.7	29.9	10.5	0.4	2.1	4.9	0.5				
2017	57,669	52.1	30.4	10.4	0.3	2.3	4.0	0.5				
2016	60,139	53.6	28.9	10.6	0.3	2.1	4.0	0.5				
2015	63,103	54.0	29.0	10.2	0.4	2.1	3.6	0.8				
2014	65,941	55.7	28.0	9.7	0.4	2.0	3.6	0.6				
2013	67,256	55.5	28.3	9.9	0.4	2.0	3.5	0.6				
2012	67,977	56.2	27.5	10.0	0.4	1.9	3.4	0.6				
2011	68,267	57.0	27.3	10.0	0.4	1.7	2.9	0.6				

⁽¹⁾ Reporting period is January 1 through December 31(2) Excludes records with unknown data errors.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 15C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Age Distribution

Summary of Trends in Age Distribution (2) Year 15 - 17 Years 18 - 19 Years 20 - 29 Years 30 - 39 Years Unknown Number < 15 Years >= 40 Years Included in % % % % % % % Analysis 54,102 2.4 7.4 2.0 0.2 2019 0.1 61.8 26.1 55,413 2018 0.1 2.6 7.7 62.5 25.1 2.0 0.1 57,676 7.7 24.3 0.1 2.8 63.1 1.8 0.1 2017 60,143 0.1 3.0 7.9 63.4 23.7 1.8 2016 0.1 2015 3.2 22.8 1.6 0.2 63,108 0.1 8.4 63.8 65,945 0.2 2014 0.2 3.4 9.1 63.5 22.1 1.7 0.2 3.9 21.2 1.6 67,261 2013 9.8 63.1 0.2 0.2 4.5 62.2 20.5 1.5 2012 67,977 10.7 0.3 0.2 4.9 2011 68,267 11.5 61.7 19.9 1.5 0.3

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 16C

2019 Pregnancy Nutrition Surveillance (Michigan

Summary of Trends in Maternal Health Indicators

Summary of Trends in Maternal Health Indicators (2)												
Year	Pre	oregnancy l	ВМІ	,	Weight Gair	า			emia			
		(3)			(4)		(Low Hb/Hct) (5)					
		Under- weight	Over- weight		< Ideal	> Ideal	3rd Trir	nester	Postpa	artum		
	Number	%	%	Number	%	%	Number	%	Number	%		
2019	43,733	4.2	60.6	27,372	19.1	51.5	9,098	45.0	12,203	30.7		
2018	45,296	4.3	59.5	29,118	19.1	51.0	9,090	49.4	12,050	37.9		
2017	47,111	4.3	58.8	31,292	19.1	51.9	9,416	49.2	11,325	36.6		
2016	51,019	4.4	58.1	33,141	19.4	51.2	9,642	45.1	12,082	34.6		
2015	53,616	4.4	56.8	44,468	19.6	50.7	9,750	41.4	12,310	31.6		
2014	56,540	4.3	56.3	45,714	17.2	52.3	9,959	39.6	12,485	28.7		
2013	58,063	4.3	56.0	46,728	16.9	52.4	9,903	38.9	11,995	28.7		
2012	61,321	4.4	54.9	48,759	17.4	51.3	9,736	38.4	12,636	27.9		
2011	62,450	4.4	54.4	50,780	17.6	51.0	10,073	35.7	13,689	27.5		

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

⁽³⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

⁽⁴⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

⁽⁵⁾ Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 17C

2019 Pregnancy Nutrition Surveillance (1) Michigan Summary of Maternal Behavioral Indicators

Summary of Maternal Behavioral Indicators (2)											
Year		Medical Car	·e	WIC En	rollment						
	1st Trin	nester	No Care	1st Tri	mester						
	Number	%	Number	%							
2019	49,415	84.9	6.6	53,324	28.5						
2018	50,875	84.3	6.8	54,591	29.4						
2017	53,045	83.1	7.7	56,717	30.6						
2016	54,902	82.2	8.4	59,189	32.4						
2015	57,579	81.1	9.4	62,203	34.1						
2014	60,317	79.7	10.8	64,954	35.7						
2013	61,039	79.9	10.5	66,266	36.9						
2012	61,308	79.8	10.6	67,036	38.0						
2011	60,703	81.1	9.2	67,132	36.7						

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31(2) Excludes records with unknown data errors.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 18C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Smoking Indicators

Page : 20

Run Date: 6/26/2020

		S	ummary of	Trends in	Smoking Ir	ndicators	(2)					
Year		Sm	oking		By First Visit and S	Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household				
		3 Months Prior to Pregnancy		Months gnancy			Prer	Prenatal		artum		
	Number	%	Number	%	Number	%	Number	%	Number	%		
2019	47,367	24.7	49,881	13.5	9,363	38.4	39,647	10.1	49,826	2.9		
2018	48,601	26.1	51,441	13.9	10,331	38.9	40,995	10.4	51,462	3.0		
2017	51,028	27.1	53,711	14.1	11,398	39.3	43,712	11.3	53,738	3.2		
2016	53,738	28.6	55,530	15.1	12,776	39.3	46,598	11.9	55,576	3.4		
2015	56,882	30.6	58,245	15.8	14,580	39.6	49,656	13.4	58,264	4.2		
2014	60,217	32.0	61,120	16.4	16,301	39.4	52,726	14.6	61,124	4.5		
2013	62,025	32.3	61,793	16.8	18,044	36.4	54,649	15.1	61,835	5.0		
2012	63,072	32.4	61,988	16.9	16,769	38.6	55,380	16.0	61,994	4.9		
2011	64,049	32.8	61,427	16.9	16,751	39.5	55,787	16.8	61,403	5.5		

⁽¹⁾ Reporting period is January 1 through December 31 (2) Excludes records with unknown data errors.

⁽³⁾ Prenatal program participation
* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 19C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Infant Health Indicators

Summary of Trends in Infant Health Indicators Year Birthweight Preterm Full Term LBW Ever Breastfed (5) High (6) Low (4) (3) % % % % Number Number Number % Number 2019 47,135 10.4 6.4 48,449 12.5 40,866 4.5 47,531 67.8 10.2 6.7 2018 48,594 49,968 12.5 42,176 4.5 48,971 67.7 50,526 10.2 6.7 52,025 51,003 2017 12.4 43,785 4.3 66.7 2016 52,145 9.8 6.9 53,729 12.3 45,193 4.2 52,506 66.2 2015 54,702 6.9 56,532 47,832 4.2 54,837 9.7 65.1 11.9 57,574 2014 57,572 7.0 50,471 59,292 9.0 11.8 3.8 63.6 58,028 7.2 11.5 3.7 58,101 8.7 2013 59,882 50,981 63.1 60,111 2012 58,368 8.8 7.3 12.1 50,877 3.7 58,753 61.2 2011 58,040 8.6 7.1 59,523 11.7 50,780 3.6 58,401 60.5

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

^{(3) &}lt;2500 g.

^{(4) &}gt; 4000 g.

^{(5) &}lt;37 weeks gestation.

^{(6) 37} or more weeks gestation and <2500 g.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 20C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Page : 22

Run Date: 6/26/2020

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)												
Race/Ethnicity	Year	Pre	pregnancy l	BMI	,	Weight Gain			Anemia			
			(3)			(4)			(Low Hb/Hct) (5)			
			Under- Over- weight weight			< Ideal	> Ideal	3rd Trir	3rd Trimester Postp		tpartum	
		Number	%	%	Number	%	%	Number	%	Number	%	
White, Not Hispanic												
	2019	22,546	4.6	58.7	14,128	17.5	52.7	4,351	35.0	6,717	23.2	
	2018	23,428	4.6	57.1	14,986	17.8	52.3	4,414	39.6	6,888	29.5	
	2017	24,340	4.7	56.3	15,648	17.8	53.3	4,514	39.7	6,533	29.0	
	2016	27,427	4.8	55.7	17,582	17.8	52.5	4,843	35.9	7,093	27.4	
Black, Not Hispanic												
	2019	13,399	3.7	63.1	8,438	19.9	52.9	3,126	60.9	3,274	45.9	
	2018	13,810	3.9	62.9	9,119	19.5	52.4	3,123	64.4	3,041	56.4	
	2017	14,791	3.7	62.3	10,603	19.4	52.4	3,380	63.6	2,870	53.4	
	2016	14,954	3.9	62.3	10,223	19.5	51.9	3,280	59.2	2,992	52.1	

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

⁽³⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9). overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

⁽⁴⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

⁽⁵⁾ Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 20C

2019 Pregnancy Nutrition Surveillance (

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2) Race/Ethnicity Prepregnancy BMI Weight Gain Year Anemia (Low Hb/Hct) (3) (4) (5) Under-Over-< Ideal > Ideal 3rd Trimester Postpartum weight weight % % % % % % Number Number Number Number **Hispanic** 4.605 67.1 2,862 981 1,282 2019 2.6 22.8 45.5 38.2 30.9 4,704 2,934 1,184 2018 2.5 65.6 22.7 44.3 850 45.4 38.3 4,919 3,119 1,071 23.0 908 42.4 2017 3.0 64.2 45.8 37.0 3,323 1,149 2016 5,372 3.1 62.6 24.8 44.2 935 45.3 33.9 American Indian/Alaska Native 89 24 43 2019 160 6.9 61.9 84 56 2018 153 5.9 60.8 33 2017 96 23 42 153 6.5 58.2 22 2016 156 3.2 63.5 78 42

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

⁽³⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9). overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

⁽⁴⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

⁽⁵⁾ Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 20C

2019 Pregnancy Nutrition Surveillance (

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2) Race/Ethnicity Prepregnancy BMI Weight Gain Year Anemia (Low Hb/Hct) (3) (4) (5) Under-Over-< Ideal > Ideal 3rd Trimester Postpartum weight weight % % % % % % Number Number Number Number Asian/Pacific Islander 881 7.4 39.4 568 170 287 2019 26.6 29.6 38.2 28.9 2018 903 7.9 41.1 546 31.5 29.1 162 34.6 294 35.0 2017 964 602 30.2 186 37.6 295 32.5 7.6 38.1 34.6 2016 1,003 7.7 37.9 610 30.7 30.7 183 40.4 292 29.5 **Multiple Races** 1,284 2019 2,136 60.9 18.8 52.9 446 48.4 598 31.6 4.4 1,429 578 2018 2,265 4.9 58.9 18.9 50.9 503 54.5 42.6 1,927 1,210 400 497 2017 4.4 59.0 18.5 52.9 54.3 41.4 2016 2,084 4.7 58.0 1,318 19.8 54.9 376 41.2 506 35.8

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

⁽³⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9). overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

⁽⁴⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

⁽⁵⁾ Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 20C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2) Race/Ethnicity Prepregnancy BMI Weight Gain Year Anemia (Low Hb/Hct) (3) (4) (5) Over-Under-3rd Trimester < Ideal > Ideal Postpartum weight weight % % % Number % % Number % Number Number All Other/Unknown 2019 3 0 2 29 20 2018 8 2017 10 9 0 15 6 3 * 2016 20 **Total All Race/Ethnic Groups** 27,372 2019 43,733 4.2 60.6 19.1 51.5 9,098 45.0 12,203 30.7 45,296 29,118 9,090 12,050 2018 4.3 59.5 19.1 49.4 37.9 51.0 11,325 47,111 31,292 9,416 2017 4.3 58.8 19.1 51.9 49.2 36.6 2016 51,019 4.4 58.1 33,141 19.4 51.2 9,642 45.1 12,082 34.6

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

⁽³⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9). overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

⁽⁴⁾ Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

⁽⁵⁾ Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 21C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends	Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)										
Race/Ethnicity	Year	M	ledical Ca	WIC Enr	ollment						
		1st Trim	1st Trimester		1st Trin	nester					
		Number	%	%	Number	%					
White, Not Hispanic											
	2019	25,289	86.5	7.7	27,266	31.7					
	2018	26,419	85.8	8.1	28,188	32.9					
	2017	27,700	84.7	9.1	29,532	34.7					
	2016	29,471	83.8	9.8	31,689	36.0					
Black, Not Hispanic											
	2019	15,338	82.8	4.2	16,325	21.3					
	2018	15,371	82.7	3.8	16,355	21.7					
	2017	16,319	81.6	4.4	17,248	21.8					
	2016	16,144	80.4	4.8	17,148	23.5					

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31 (2) Excludes data with errors.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 21C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)										
Race/Ethnicity	Year	М	edical Ca	re	WIC Enrollment					
		1st Trime	1st Trimester No		1st Trimester					
		Number	%	%	Number	%				
Hispanic										
	2019	5,240	83.3	8.1	5,672	32.9				
	2018	5,277	80.5	9.9	5,723	35.2				
	2017	5,474	79.4	11.0	5,888	36.7				
	2016	5,744	79.0	11.7	6,262	38.5				
American Indian/Alaska Native										
	2019	170	85.3	8.2	189	34.4				
	2018	169	84.6	6.5	195	30.3				
	2017	174	82.8	10.3	192	39.1				
	2016	162	84.6	5.6	182	40.7				

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31 (2) Excludes data with errors.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 21C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in	Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)										
Race/Ethnicity	Year	М	edical Ca	re	WIC Enrollment						
		1st Trim	1st Trimester		1st Trin	nester					
		Number	%	%	Number	%					
Asian/Pacific Islander											
	2019	1,064	91.0	5.4	1,136	32.0					
	2018	1,099	89.1	5.4	1,162	30.1					
	2017	1,226	87.7	5.3	1,293	28.0					
	2016	1,164	84.8	7.6	1,240	31.2					
Multiple Races											
	2019	2,309	83.3	6.6	2,533	31.3					
	2018	2,517	84.4	5.8	2,693	30.4					
	2017	2,129	80.5	9.3	2,278	33.0					
	2016	2,205	81.0	9.2	2,348	34.6					

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31 (2) Excludes data with errors.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 21C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)										
Race/Ethnicity	Year	М	edical Ca	WIC Enrollment						
		1st Trim	ester	No Care	1st Trir	nester				
		Number	%	%	Number	%				
All Other/Unknown										
	2019	2	*	*	200	1.0				
	2018	21	*	*	269	2.6				
	2017	16	*	*	279	0.7				
	2016	9	*	*	316	6.0				
Total All Race/Ethnic Groups										
	2019	49,415	84.9	6.6	53,324	28.5				
	2018	50,875	84.3	6.8	54,591	29.4				
	2017	53,045	83.1	7.7	56,717	30.6				
	2016	54,902	82.2	8.4	59,189	32.4				

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31 (2) Excludes data with errors.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 22C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity (2) Race/Ethnicity Year Quit Smoking By First Prenatal **Smoking** Smoking in Household Visit and Stayed Off Cigarettes (3) 3 Months Last 3 Months Prenatal Postpartum Prior to Pregnancy of Pregnancy Number % % % % Number % Number Number Number White, Not Hispanic 24,850 25,511 6,274 20,589 25,500 2019 31.9 19.2 32.6 10.5 2.8 25,740 6,992 21,521 26,665 2018 33.6 26,654 19.8 33.0 11.1 2.8 2017 27,201 34.3 28,001 20.2 7,583 33.4 23,102 11.9 28,026 3.1 2016 29,428 29,826 20.8 8,628 33.1 25,257 29,852 3.0 35.6 12.4 Black, Not Hispanic 15,469 2019 13,854 16.4 15,488 6.7 1,892 54.2 11,523 11.7 3.4 13,953 11,708 2018 17.7 15,561 6.9 2,044 55.5 11.5 15,571 3.9 2017 14.920 19.3 16.531 6.9 2.473 54.7 12.760 12.2 16.535 3.9 2016 15,021 20.9 16.280 8.1 2.669 55.8 13.003 13.6 16.292 4.6

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes data with errors.

⁽³⁾ Among women who smoked 3 months prior to pregnancy

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 22C

2019 Pregnancy Nutrition Surveillance Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity (2) Race/Ethnicity Year Quit Smoking By First Prenatal **Smoking** Smoking in Household Visit and Stayed Off Cigarettes (3) 3 Months Last 3 Months Prenatal Postpartum Prior to Pregnancy of Pregnancy % Number % % % % Number Number Number Number Hispanic 5,158 5,299 553 4,540 5,278 2019 13.0 5.6 52.4 4.7 1.6 5,195 622 5,381 4,620 5,380 2018 5.9 51.9 5.1 1.5 14.3 2017 5,434 14.2 5,582 5.7 653 53.0 4,894 5.4 5,578 1.6 2016 5,775 5,846 6.0 721 53.5 5,271 6.1 5,850 1.7 14.7 **American Indian/Alaska Native** 170 62 171 174 148 2019 44.8 30.0 10.8 6.4 2018 180 49.4 167 36.5 60 148 20.9 168 8.3 2017 175 49.7 171 33.3 73 150 24.0 172 8.1 2016 168 48.8 160 26.9 62 152 16.4 161 6.8

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes data with errors.

⁽³⁾ Among women who smoked 3 months prior to pregnancy

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Table 22C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

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Run Date: 6/26/2020

	Sumn	nary of Tre	nds in S	Smoking lı	ndicator	s by Race	/Ethnicit	y (2)				
Race/Ethnicity	Year		Sm	oking		Quit Sn By First I Visit and S Cigaret	Prenatal Stayed Off	Smoking in Household				
	3 Mo Prior to Pr		Last 3 Months of Pregnancy					Prenatal		artum		
		Number	%	Number	%	Number	%	Number	%	Number	%	
Asian/Pacific Islander												
	2019	1,058	3.2	1,077	1.1	18	*	851	3.1	1,076	2.3	
	2018	1,106	3.4	1,116	1.4	27	*	879	1.9	1,114	1.2	
	2017	1,232	3.6	1,248	1.4	37	*	991	2.8	1,249	1.5	
	2016	1,176	3.6	1,182	1.1	36	*	977	3.0	1,182	1.2	
Multiple Races												
	2019	2,266	30.7	2,331	17.6	562	35.2	1,992	12.9	2,327	3.6	
	2018	2,396	29.8	2,538	16.4	586	38.4	2,109	12.7	2,540	3.7	
	2017	2,043	34.0	2,155	18.1	577	36.0	1,810	15.0	2,155	4.4	
	2016	2,147	36.0	2,224	19.5	660	37.7	1,924	14.5	2,227	3.8	

⁽¹⁾ Reporting period is January 1 through December 31 (2) Excludes data with errors.

⁽³⁾ Among women who smoked 3 months prior to pregnancy
* Percentages are not calculated if <100 records are available for analysis after exclusions

Table 22C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity (2) Race/Ethnicity Year **Quit Smoking** By First Prenatal **Smoking** Smoking in Household Visit and Stayed Off Cigarettes (3) 3 Months Last 3 Months Prenatal Postpartum Prior to Pregnancy of Pregnancy % Number % % % Number % Number Number Number All Other/Unknown 4 2 2 2 0 2019 25 22 5 22 2018 2017 16 16 0 0 16 2016 19 9 0 10 9 * **Total All Race/Ethnic Groups** 47,367 39,647 9,363 2019 24.7 49,881 13.5 38.4 10.1 49,826 2.9 48,601 40,995 51,462 2018 26.1 51,441 13.9 10,331 38.9 10.4 3.0 2017 51.028 27.1 53.711 14.1 11,398 39.3 43.712 11.3 53,738 3.2

53,738

28.6

55.530

15.1

12.776

39.3

46.598

11.9

55,576

3.4

2016

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes data with errors.

⁽³⁾ Among women who smoked 3 months prior to pregnancy

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 23C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity	Year	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
			Low (3)	High (4)	(5)		(6)			
		Number	%	%	Number	%	Number	%	Number	%
White, Not Hispanic										
	2019	24,085	8.4	8.1	24,733	11.0	21,257	3.4	24,266	72.3
	2018	25,171	8.3	8.3	25,844	10.9	22,236	3.4	25,327	71.9
	2017	26,229	8.4	8.5	27,065	10.8	23,152	3.5	26,555	71.5
	2016	27,800	8.0	8.8	28,754	11.1	24,436	3.2	28,124	70.6
Black, Not Hispanic										
	2019	14,676	14.6	3.4	15,109	15.5	12,281	6.6	14,849	58.1
	2018	14,739	14.4	3.7	15,218	15.5	12,342	6.7	14,896	57.7
	2017	15,697	14.1	3.4	16,145	15.5	13,154	6.3	15,781	55.3
	2016	15,487	13.8	3.5	15,903	15.3	12,985	6.3	15,497	54.6

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

^{(3) &}lt;2500 g.

^{(4) &}gt;4000 g. (5) <37 weeks gestation.

^{(6) 37} or more weeks gestation and <2500 g.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 23C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity	Year	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
			Low (3)	High (4)	(5)		(6)			
		Number	%	%	Number	%	Number	%	Number	%
Hispanic										
	2019	5,004	7.7	7.2	5,117	11.6	4,380	3.2	5,029	71.2
	2018	5,062	7.4	7.5	5,167	11.8	4,425	3.3	5,100	72.3
	2017	5,232	7.5	7.9	5,329	11.9	4,543	2.9	5,262	72.5
	2016	5,469	7.5	7.8	5,590	11.1	4,797	3.7	5,496	72.3
American Indian/Alaska Native										
	2019	157	7.6	14.0	162	13.6	131	3.8	158	69.6
	2018	158	7.0	11.4	166	10.2	140	3.6	158	72.8
	2017	157	10.2	7.6	167	16.8	128	3.9	157	79.0
	2016	149	3.4	12.1	158	8.2	136	1.5	150	73.3

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

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^{(6) 37} or more weeks gestation and <2500 g.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 23C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity	Year	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
			Low (3)	High (4)	(5)		(6)			
		Number	%	%	Number	%	Number	%	Number	%
Asian/Pacific Islander										
	2019	1,017	10.7	4.2	1,051	10.9	899	6.0	1,022	79.4
	2018	1,039	11.6	4.8	1,075	12.1	905	7.1	1,058	79.4
	2017	1,155	10.7	6.1	1,199	11.3	1,012	5.4	1,183	79.9
	2016	1,112	10.6	4.5	1,159	11.8	972	5.1	1,127	74.4
Multiple Races										
	2019	2,193	10.6	6.1	2,272	12.1	1,916	5.1	2,202	70.0
	2018	2,402	9.5	7.5	2,475	11.5	2,105	4.3	2,409	69.6
	2017	2,035	9.8	6.7	2,097	11.8	1,779	4.2	2,043	69.7
	2016	2,119	9.1	6.4	2,155	11.2	1,860	4.0	2,102	70.7

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

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^{*} Percentages are not calculated if <100 records are available for analysis after exclusions

Table 23C

2019 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Infant Health Indicators by Race/Ethnicity

Sı	ımmary of	Trends in	Infant H	lealth In	dicators by	y Race/I	Ethnicity (2	2)		
Race/Ethnicity	Year	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
			Low (3)	High (4)	(5)		(6)			
		Number			Number	%	Number	%	Number	%
All Other/Unknown										
	2019	0	*	*	2	*	0	*	2	*
	2018	21	*	*	21	*	21	*	21	*
	2017	15	*	*	16	*	12	*	16	*
	2016	7	*	*	8	*	5	*	8	*
Total All Race/Ethnic Groups										
	2019	47,135	10.4	6.4	48,449	12.5	40,866	4.5	47,531	67.8
	2018	48,594	10.2	6.7	49,968	12.5	42,176	4.5	48,971	67.7
	2017	50,526	10.2	6.7	52,025	12.4	43,785	4.3	51,003	66.7
	2016	52,145	9.8	6.9	53,729	12.3	45,193	4.2	52,506	66.2

Run Date: 6/26/2020

⁽¹⁾ Reporting period is January 1 through December 31

⁽²⁾ Excludes records with unknown data errors.

^{(3) &}lt;2500 g.

^{(4) &}gt;4000 g. (5) <37 weeks gestation.

^{(6) 37} or more weeks gestation and <2500 g.

^{*} Percentages are not calculated if <100 records are available for analysis after exclusions